

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

- (a) the nucleotide sequence of SEQ ID NO:41;
- 5 (b) the nucleotide sequence of SEQ ID NO:41 from nucleotide 161 to nucleotide 1348;
- (c) the nucleotide sequence of SEQ ID NO:41 from nucleotide 599 to nucleotide 1348;
- 10 (d) the nucleotide sequence of the full-length protein coding sequence of clone dd504_18 deposited under accession number ATCC 98850;
- (e) a nucleotide sequence encoding the full-length protein encoded by the cDNA insert of clone dd504_18 deposited under accession number ATCC 98850;
- 15 (f) the nucleotide sequence of a mature protein coding sequence of clone dd504_18 deposited under accession number ATCC 98850;
- (g) a nucleotide sequence encoding a mature protein encoded by the cDNA insert of clone dd504_18 deposited under accession number ATCC 98850;
- (h) a nucleotide sequence encoding a protein comprising the amino acid sequence of SEQ ID NO:42;
- 20 (i) a nucleotide sequence encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:42, the fragment comprising eight contiguous amino acids of SEQ ID NO:42;
- (j) the nucleotide sequence of a polynucleotide that hybridizes under conditions at least as stringent as 4X SSC at 65 degrees C, or 4X SSC at 42 degrees C with 50% formamide, to any one of the polynucleotides specified by (a)-(g); and
- 25 (k) the nucleotide sequence of a polynucleotide that hybridizes under conditions at least as stringent as 4X SSC at 50 degrees C, or 6X SSC at 40 degrees C with 50% formamide, to any one of the polynucleotides specified by (a)-(g), and that has a length that is at least 25% of the length of SEQ ID NO:41.

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2. The polynucleotide of claim 1 wherein said polynucleotide is operably linked to at least one expression control sequence.

3. A host cell transformed with the polynucleotide of claim 2.

4. The host cell of claim 3, wherein said cell is a mammalian cell.
5. A process for producing a protein encoded by the polynucleotide of claim 2, which process comprises:
- 5 (a) growing a culture of a host cell in a suitable culture medium, wherein the host cell has been transformed with the polynucleotide of claim 2; and
- (b) purifying said protein from the culture.
6. A protein produced according to the process of claim 5.
- 10 7. An isolated polynucleotide encoding the protein of claim 6.
8. The polynucleotide of claim 7, wherein the polynucleotide comprises the cDNA insert of clone dd504_18 deposited under accession number ATCC 98850.
- 15 9. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:42;
- (b) a fragment of the amino acid sequence of SEQ ID NO:42, the
- 20 fragment comprising eight contiguous amino acids of SEQ ID NO:42; and
- (c) the amino acid sequence encoded by the cDNA insert of clone dd504_18 deposited under accession number ATCC 98850;
- the protein being substantially free from other mammalian proteins.
- 25 10. The protein of claim 9, wherein said protein comprises the amino acid sequence of SEQ ID NO:42.
11. A composition comprising the protein of claim 9 and a pharmaceutically acceptable carrier.
- 30 12. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:
- (a) the nucleotide sequence of SEQ ID NO:51;

- (b) the nucleotide sequence of SEQ ID NO:51 from nucleotide 379 to nucleotide 3783;
- (c) the nucleotide sequence of SEQ ID NO:51 from nucleotide 460 to nucleotide 3783;
- 5 (d) the nucleotide sequence of SEQ ID NO:51 from nucleotide 1983 to nucleotide 3938;
- (e) the nucleotide sequence of the full-length protein coding sequence of clone qs14_3 deposited under accession number ATCC 98850;
- (f) a nucleotide sequence encoding the full-length protein encoded by
10 the cDNA insert of clone qs14_3 deposited under accession number ATCC 98850;
- (g) the nucleotide sequence of a mature protein coding sequence of clone qs14_3 deposited under accession number ATCC 98850;
- (h) a nucleotide sequence encoding a mature protein encoded by the cDNA insert of clone qs14_3 deposited under accession number ATCC 98850;
- 15 (i) a nucleotide sequence encoding a protein comprising the amino acid sequence of SEQ ID NO:52;
- (j) a nucleotide sequence encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:52, the fragment comprising eight contiguous amino acids of SEQ ID NO:52;
- 20 (k) the nucleotide sequence of a polynucleotide that hybridizes under conditions at least as stringent as 4X SSC at 65 degrees C, or 4X SSC at 42 degrees C with 50% formamide, to any one of the polynucleotides specified by (a)-(h); and
- (l) the nucleotide sequence of a polynucleotide that hybridizes under conditions at least as stringent as 4X SSC at 50 degrees C, or 6X SSC at 40 degrees
25 C with 50% formamide, to any one of the polynucleotides specified by (a)-(h), and that has a length that is at least 25% of the length of SEQ ID NO:51.

13. A protein comprising an amino acid sequence selected from the group consisting of:

- 30 (a) the amino acid sequence of SEQ ID NO:52;
- (b) the amino acid sequence of SEQ ID NO:52 from amino acid 536 to amino acid 1135;
- (c) a fragment of the amino acid sequence of SEQ ID NO:52, the fragment comprising eight contiguous amino acids of SEQ ID NO:52; and

(d) the amino acid sequence encoded by the cDNA insert of clone qs14_3 deposited under accession number ATCC 98850; the protein being substantially free from other mammalian proteins.